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T070431

1. Location of Reading Room: Idaho Operations Public Reading Room 1776 Science Center Dr. University Place Idaho Falls, ID 83403	2. Expected Release Date:  May 15, 1995
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## 3. Document Type:

- ☐ Letter  
☐ Memorandum  
☒ Report  
☐ Publication  
☐ Other (Specify)

## a. If letter or memo:

To:  
From:  
Subject:

## b. If report:

Title: MONTHLY REPORT - ANALYTICAL  
CHEMISTRY BRANCH DECEMBER 21, 1965  
- JANUARY 20, 1966

## 4. Document Date:

JANUARY 24, 1966

## c. If publication:

Name:  
Volume:  
Issue:

5. Summary (2-3 lines indicating the major subject(s) of the document): Report on routine analysis of biological samples, water samples, air and dust samples; whole body counts; and on different research items and papers published.

6. Name and telephone number  
of person completing form:

Anjan K. Majumder  
(208) 525-0206

## 7. Organization:

Lockheed Idaho  
Technologies Co.

## 8. Date:

May, 1995

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# HUMAN RADIATION EXPERIMENTS

## RECORDS PROVENANCE FORM

REPOSITORY NAME		INEL
* COLLECTION NAME	ORIGINAL NAME	RESL READING FILES / MONTHLY ACTIVITY REPORTS
	NEW NAME	RADIOLOGICAL AND ENVIRONMENTAL SCIENCES LABORATORY, FILES OF DOUG CARLSON, DIRECTOR
BOX NUMBER		BOX # 1
ADDITIONAL LOCATION INFORMATION		RESL, CFA-690, ROOM # 102, ON THE FLOOR  FOLDER: MONTHLY ACTIVITY REPORT- ANALYTICAL CHEMISTRY BRANCH, 1958 - 1972
FILE TITLE		MONTHLY REPORT - ANALYTICAL CHEMISTRY BRANCH - DECEMBER 21, 1965 - JANUARY 20, 1966
TOTAL PAGES		
BATE NUMBER RANGE		
DOCUMENT NUMBER RANGE		

ORIGINAL HEI FORM DOCUMENT NO.: T070010

NEW HEI FORM DOCUMENT NO.: T070246

DOCUMENT NO.: T070431

DOCUMENT TITLE: MONTHLY REPORT - ANALYTICAL CHEMISTRY BRANCH -  
DECEMBER 21, 1965 - JANUARY 20, 1966

CROSS REFERENCES:

ITEMS OF INTEREST:

\* A NEW COLLECTION NAME REPLACED THE ORIGINAL DUE TO  
REORGANIZATION OF RECORD SERIES

John R. Horan, Director  
Health and Safety Division

January 24, 1966

Claude W. Sill, Ass't Director for Technology  
Health and Safety Division

MONTHLY REPORT - ANALYTICAL CHEMISTRY BRANCH - DECEMBER 21, 1965 -  
JANUARY 20, 1966

HSAC:CPW

#### ROUTINE

Biological samples (urine, feces, etc.)	1,149
Water samples (potable, effluent, etc.)	220
Air dusts (carbon cartridges, filters, etc.)	238
Whole-body analyses	584

#### RESEARCH

One hundred microcuries of iodine 131 as iodoethane was prepared and released in the CERTLE box to check the efficiency of Maypac filters. The efficiency of collection was very poor.

A procedure for separating Neptunium 239 from Americium 243 has been developed. A working solution of protoactinium has been prepared by activating thorium 232 and separating the protoactinium 233 by extraction.

Research was continued on (1) Helical scanning of human subjects, (2) Fluorometric determination of germanium and thorium, (3) Separation and determination of plutonium from soil, and (4) Thorium 230 determination.

Several calibration standards have been prepared, and the medical van has been calibrated for Cs<sup>137</sup> and Co<sup>60</sup>.

#### SPECIAL ACTIVITIES

Many samples were analyzed from the SNAP destructive tests, and dosimeters from the test were analyzed.

The medical van was put into service at the NRP. Several people were found to have detectable amounts of Co<sup>60</sup>.

Dale Olsen attended a meeting of the ASTM committee at Palm Beach, Florida. He is a member of subcommittee D-19.

REPOSITORY

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RESL READING FILES/  
MONTHLY ACTIVITY

BOX No.

1, RESL CFA-690 ROOM #102  
MONTHLY ACTIVITY REPORTS-

FOLDER

ANALYTICAL CHEMISTRY BRANCH  
1958 - 1972

John R. Horan

-2-

January 24, 1966

WHOLE-BODY COUNTING ACTIVITIES

One hundred and eighty eight people were counted in the stationary body counter as follows: 133 routine, 32 terminations, and 23 others. The nationwide study has been concluded.

Three hundred and ninety six people were counted in the medical van at NRF.